AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

- 1. (currently amended): Receiver A receiver for an OTDM-optical time division multiplexed pulse train in which the pulses have alternating polarizations, wherein the receiver comprising:
 - a) a polarization insensitive optical switch for isolating optical pulses within the pulse train, and
 - b) a polarization selective element for separating from the isolated pulses at least one component that has a single polarization.
- 2. (currently amended): The receiver of claim 1, wherein further comprising a polarization controller for altering the polarization of the isolated pulses, the polarization controller being disposed between the optical switch and the polarization selective element.
- 3. (original): The receiver of claim 2, wherein the polarization selective element is a polarization beam splitter having a first output port and a second output port, wherein the first output port emits a first component of the isolated pulses having a first polarization, and the second output port emits a second component of the isolated pulses having a second polarization that is distinct from the first polarization.

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- 4. (original): The receiver of claim 3, wherein the first output port is connected to a pulse detector for extracting digital information, and the second output port is connected to a power detector that forms, together with the polarization controller and the polarization beam splitter, a control feedback loop for controlling the polarization controller.
- 5. (currently amended): The receiver of claim 4, wherein further comprising a clock recovery module that is connected to the pulse detector for extracting a clock signal to be fed to the optical switch.
- 6. (currently amended): Method A method for receiving an OTDM optical time division multiplexed pulse train in which the pulses have alternating polarizations, the method comprising the steps of:
 - a) isolating optical pulses from the pulse train by a polarization insensitive optical switch, and
 - b) separating from the isolated pulses at least one component that has a single polarization.
- 7. (original): The method of claim 6, wherein the polarizations of the isolated pulses are altered by a polarization controller before the isolated pulses are separated into components having a single polarization.
- 8. (original): The method of claim 6, wherein a first and a second component having different polarizations are separated from the isolated pulses, wherein the first component is used for

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extracting digital information and the second component is used for controlling the polarization controller in a control feedback loop.

9. (original): The method of claim 8, wherein the polarization controller is controlled by the control feedback loop such that the optical power of the second component is minimal.